

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 June 2002 (27.06.2002)

PCT

(10) International Publication Number
WO 02/49507 A1

(51) International Patent Classification⁷: **A61B 5/00**,
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(21) International Application Number: PCT/GB01/05634 (74) Agent: **FRANK B. DEHN & Co.**; 179 Queen Victoria Street, London EC4V 4EL (GB).

(22) International Filing Date:
19 December 2001 (19.12.2001)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

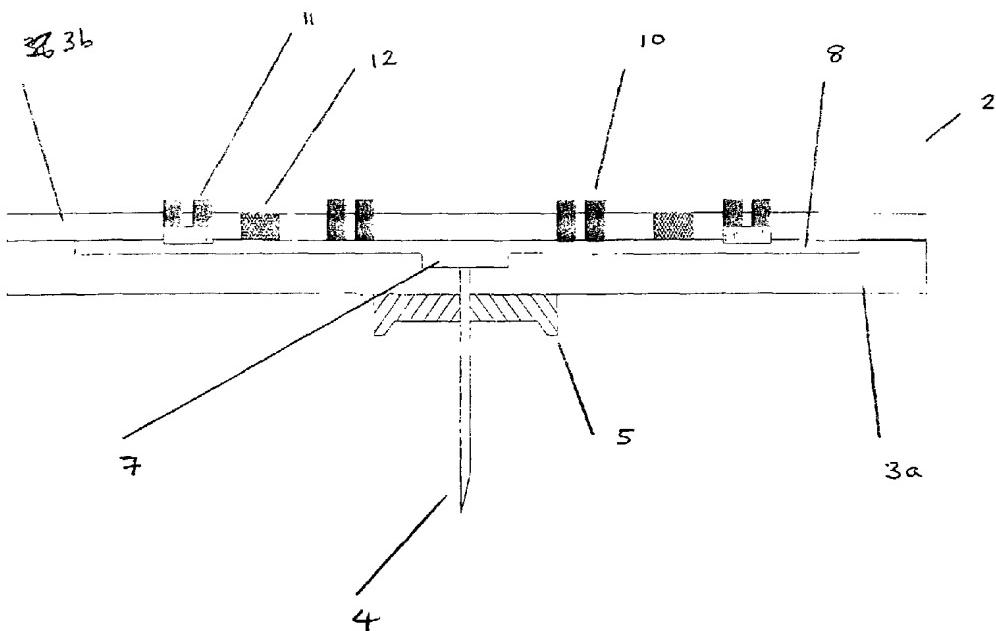
(26) Publication Language: English

(30) Priority Data:
0030929.4 19 December 2000 (19.12.2000) GB

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ANALYTE MEASUREMENT



WO 02/49507 A1

(57) Abstract: A glucose sensor in the form of a skin patch (2) has a microneedle (4) which painlessly penetrates the skin to draw out interstitial fluid. The interstitial fluid passes to a common entrance port (7). A series of microchannels (8) is provided on the skin patch. The fluid drawn onto the patch is selectively switched between a number of microchannels (8) by means of electroosmotic pumps (10) and hydrophobic gates (12). Each microchannel (8) has an electrochemical detector (11) for sensing glucose concentration. Also disclosed is a monolithic device with an integrated lance (3a).



Published:

— *with international search report*

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